




# NHHPC eNews

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## Message from the Director

Welcome to the second issue of NHHPC eNews—the quarterly source of information created by NHHPC members, for members. This issue features information on the upcoming "mHealth - Smart Media and Health: Applications Benefiting Life in Space and on Earth," workshop for NHHPC members to be held on June 7 in Washington, DC. We've got an exciting line up of speakers, including Todd Park, the U.S. Chief Technology Officer, an interactive panel, and expert facilitated break-out sessions planned, as well as our popular networking reception immediately following the workshop. Please don't miss the registration deadline of May 31st, and I look forward to seeing you there! Member news, project opportunities and updates, and information on additional upcoming events are also included in this edition. Enjoy, and keep your inputs coming!

*Jeff*

## Upcoming Events

- June 1, 2012: [Flight Physiology 101](#) - The Patricia Hilliard Robertson Center for Aviation Medicine, Indiana, PA
- June 7, 2012: [NHHPC mHealth Workshop in Washington, DC](#)
- June 12, 2012: [Collaborative Innovation: Public Sector Prizes, in Washington, DC](#)
- June 16 - 17, 2012: [UK Space Environments Conference](#), "UK Research & Education for Space & Terrestrial Benefit," Aberdeen, Scotland
- August 3, 2012 – [NASA SLSD ILS](#) featuring Jeff Flatten with FoldIt (via WebEx)
- August 15, 2012 - NHHPC Member to Member Connect: Nate Gross of Doximity (via WebEx at 2:30pm CT)
- As part of WebFWD, Mozilla is conducting regular webinars on a diverse set of topics and the recorded sessions can be found at [LearnFWD Webinars](#).

# NHHPC News



## mHealth Workshop June 7

We are excited to offer the newest workshop for NHHPC member organizations on "mHealth - Smart Media and Health: Applications Benefiting Life in Space and on Earth," to be held June 7 at the Kaiser Permanente Center for Total Health in Washington, DC. We have a great program lined up for you including Keynote speakers Todd Park, the U.S. Chief Technology Officer, and Philip Fasano, Executive VP and CIO at Kaiser Permanente, a panel on mobile health applications for Earth and space, feature presentations and six interactive breakout sessions facilitated by experts in the field. The workshop concludes with a networking reception sponsored by Wyle where workshop participants can continue their collaboration discussions in a relaxed setting. There is no fee, but members must register to attend. Agendas and biographies of speakers and other workshop information can be found on the NHHPC website. If you can't attend in person, follow workshop comments on [Twitter](#) using #NASAhealth or follow the NASA mHealth workshop [event blog](#)!

## A renewed emphasis on Social Responsibility

The NHHPC is pleased to announce a renewed emphasis on Social Responsibility. Previously called Social Entrepreneurship, we updated this theme to broaden the scope of its focus. Social Responsibility will be featured in a breakout session at the [mHealth workshop](#) facilitated by Scott Ratzan and Michael Weinberger from Johnson & Johnson, Todd Schlegel from NASA-JSC, and Carissa Vidlak from Wyle/NASA-JSC. Session participants will review and discuss the latest Johnson & Johnson initiatives, NASA technologies, and possible collaborations regarding their own organizational efforts relating to mobile communication, health and social good. Please join us!

## NHHPC Now on Twitter

The NHHPC is now on Twitter! Follow [@NASAHumanHealth](#) for the latest member news and events. Be sure to mention us if you'd like updates or information retweeted to our followers. On June 7th, follow us during the mHealth workshop and/or use #NASAhealth to see participant comments real-time!



## DC Health Data and Innovation Week June 2-8, 2012

Take advantage of DC Health Data and Innovation Week when you attend the mHealth workshop! Activities include:

- June 2-3: Obesity prevention code-a-thon , Kaiser Permanente Center for Total Health
- June 4: HealthCamp DC, unconference, Kaiser Permanente Center for Total Health
- June 4: The Walking Gallery, art event , Kaiser Permanente Center for Total Health
- June 5-6: Health Data Initiative Forum III, health datapalooza, Walter E. Washington Convention Center
- June 7: mHealth - Smart Media and Health: Applications Benefiting Life in Space and on Earth workshop for NHHPC members, Kaiser Permanente Center for Total Health

Details for all events are posted on [Plancast](#).



# NHHPC News

## NHHPC Education Community of Practice conducts successful student competition

Twelve NHHPC members in the Education Community of Practice worked together to develop and conduct a successful pilot education competition. The competition, designed to promote careers in Science, Technology, Engineering, and Math (STEM), involved middle school students from around the country. Individuals and team entrants researched the human challenges of a crewed mission to an asteroid, elaborated on issues, and proposed possible solutions. Students were recognized with web presence for their work as well as certificates from NASA and Clemson University. View the details of the contest and the outcomes at the [NHHPC web site](#). Through this effort, despite geographical separation, the partners gained familiarity with each other's talents and resources resulting in a successful project that accommodated the varying levels of support and experience available. With the knowledge and experience gained, the team is looking forward to issuing future competitions and seeking more enticing rewards for the highest achieving students. Contact Education Team Lead, Kevin Rosenquist, for more information.

## Member News & Innovation

### 2012 Humans in Space Youth Art Competition

Announcing the Opening of the [2012 Humans in Space Youth Art Competition](#).

Youth worldwide 10-18 years old are invited to share their visions of the future of space exploration by submitting visual, literary, musical and video artwork by October 21, 2012. The competition partners (German Aerospace Center, NASA, and the University Space Research Association) challenge youth to consider "How will humans use science and technology to explore space, and what mysteries will they uncover?" Competition judges will include program managers, artists, teachers, astronauts, musicians, and engineers from all over the world.



*Beam Base-Exploration Aboard Moon (Team)  
Emily Miedema, 12, Canada, Abby Bull, 12, Canada*

Following closure of the online competition, multimedia displays and performances of the artwork will ensure that youth ideas are viewable by people of all ages. Venues will include the 19th Humans in Space Symposium of the International Academy of Astronautics (IAA) in Cologne, Germany in July 2013 and various events associated with NASA's 50 Years of Solar System Exploration Celebration.

### Girlstart conducts asteroid competition at Girls In STEM Conference

Girlstart participated in the NHHPC Education Community of Practice Asteroid competition, adapting it for their Girls In STEM Conference on March 31st. Nearly 400 participants designed their own asteroid lander using common household materials. Check out pictures of some of the girls' designs and download an asteroid lander activity sheet at [girlstart.org](#).

# Member News and Innovation

## IIH UK new website and research news

**NEW WEBSITE** - At last! The IIH UK's brand new website [www.iih.org.uk](http://www.iih.org.uk) is now live—don't forget to have a good look at the new one!! Don't bother to remember the old one!!! IIH UK can't tell you how much blood, sweat and tears have gone into this!!! Most of the blood, sweat and tears came from Natalie Garrett their brilliant Secretary who only got to bed at 01.30 in the morning after tweaking everything!!! Thanks to you Natalie!

While you are there, read about the upcoming meeting and various fundraiser and research efforts including rugby matches held at the Henley Hawks' grounds between the Henley Hawks team and visitors Richmond Rugby Club. A special charity dinner was also held with a charity auction. Elaine Hibberd, Sarah's mother and family attended. Everyone was amazed and delighted to find that £5,000 (\$8,074) had been raised for IIH UK in the space of a couple of hours! Sarah Hibberd was a super-fit rugby player for the Henley Hawks. She contracted Dengue Fever whilst on a holiday trip to the Gambia. Although no link to Dengue Fever was proven, she then developed severe and almost uncontrollable idiopathic intracranial hypertension (IIH)-like symptoms which had to be treated as IIH. After 22 brain operations she passed away in September 2011. IIH UK will use this marvellous donation towards the cost of the Sarah Hibberd Conference at Cambridge University which is being planned for this summer. The conference will co-ordinate front end research programmes into the causes of IIH as well as the descriptive and palliative aspects such as drugs and surgery.



## Patricia Hilliard Robertson Center Academy programs

The Patricia Hilliard Robertson Center for Aviation Medicine's Flight Academy 2012 is underway, providing a wide variety of educational programs including human factors, flight and aerospace physiology, stressors of flight, night vision lab, in-flight medical emergencies and more. Programs are currently designed for pilots, aircrews, and medical professionals. Stay tuned for upcoming information on programs for teachers and educators! Programs are accredited for FAA Safety Wings, and other continuing medical education credits. For more information on our programs or to register for June 1, 2012: Flight Physiology 101, contact us at [aviationmedicine@indianarmc.org](mailto:aviationmedicine@indianarmc.org).

## CauseShift launches NewEmpireBuilders.com

CauseShift has launched NewEmpireBuilders.com, a collaborative media property covering the people and ideas shifting how the world works to make it better. It was launched at SXSW with a large number of partners, and in just two months, has already had 100 stories posted and over 50 podcast episodes on iTunes. CauseShift welcomes story ideas and story contributions from other NHHPC members - just send them to Scott Henderson or [storyideas@newempirebuilders.com](mailto:storyideas@newempirebuilders.com). Learn more at NewEmpireBuilders.com!





## Member News and Innovation

### Mozilla WebFWD updates

Mozilla continues to grow their series of freely available Webinar recordings on a wide range of topics. They have also made all the talks from their last [WebFWD Summit in November 2011 available](#).

Pascal Finette's keynote on "Innovate in the Open" at the Technology Convergence Conference is now available as a [free stream](#) with the presentation [deck](#).

Pascal Finette attended a Social Innovation workshop from the [European Commission](#). Pascal also spoke at the [TL;DR Conference](#) in San Francisco on March 30th, the [Startupism Conference](#) in San Francisco on April 2nd/3rd, and will speak at the [HackFWD Build conference](#) in Berlin on June 7-10.

### NASA Human Research Wiki

The [NASA Human Research Wiki](#) is an online collaborative environment, developed to enable authors internal and external to NASA to update the evidence base for medical conditions which are of concern for space flight. The Wiki was developed by the Exploration Medical Capability (ExMC) element within NASA's Human Research Program, and includes information on medical conditions that could occur during space flight and reports outlining existing gaps in either knowledge or technology that need to be addressed in order to enable safer exploration missions. When fully populated, the Wiki will include data from the 86 medical conditions in the Space Medicine Exploration Medical Condition List (SMEMCL). Although traditional Wikis allow users to edit information in real time, the NASA Human Research Wiki includes a peer review process to

ensure quality and validity of information. "Read only" access is available to all visitors to the website; to request editorial access please complete the form on the website.

### Inaugural UK Space Environments Conference

Aberdeen, Scotland will play host to the inaugural UK Space Environments Conference, "UK Research & Education for Space & Terrestrial Benefit," on June 16 and 17 of this year. Last year the UK Space Biomedicine Consortium, which includes NHHP members Kings College London, Centre of Human & Aerospace Physiological Sciences (CHAPS), DLR Institute of Aerospace Medicine, and Wyle was established. This association of over 20 academic and commercial space related organizations, coordinated by Simon Evetts, PhD/Wyle GmbH, will be identifying and pursuing a national space biomedicine strategy in the months ahead. Leading UK and international researchers from the fields of space biomedicine, astrobiology, microgravity-physics and astrochemistry, they will present and discuss details of their work and plans for the future. Day one of the conference will be devoted to Space Biomedicine, and will feature Dr. Jeff Davis, NASA's Director of Space Life Sciences as the Key Note speaker, presenting 'Collaboration for Space and Terrestrial Benefit.' Visit our [conference website](#) for full program details and registration information.





# New Projects, Ideas and Connections

## P&G seeks innovative thermal sealing technologies

P&G widely uses flexible film packing equipment to form and fill packages. They would like to better understand the quality of the thermal sealing process on this equipment. Since the quality of sealing is mainly driven by temperature, pressure, and time (the latter is easily measured), they are interested in robust, easy to use, cost effective, precise, pressure and temperature measurement technologies for use in flexible packing equipment used in the manufacturing plant setting. P&G is seeking any type of technologies that meet specific technical requirements and can be temporarily integrated to the flexible film (i.e., adhered to film web) or the package line (i.e., placed over the sealing jaws). Examples of such technologies could be a consumable or reusable film with embedded ultra-thin pressure/temperature sensors which can either run as a normal film on the packing line or be attached to the flexible film web or placed over the seal jaws, a measuring device / probe attached to commercial film rolls which in turn is connected to a set of devices that record the pressure and temperature output, etc. Please visit the [NHHPC website](#) for technical requirements and additional details including a full description of the project. If you have any leads on such technologies, or companies/groups who may have such technologies, please contact [Ravi Ranatunga](#), Global Business Development, P&G by June 30, 2012. Please note that only non-confidential information can be accepted for review.



Vertical Form Fill Seal Equipment

## New book in work by Pascal Finette, Mozilla

Mozilla WebFWD: Pascal Finette is working on a book on Practical Open Innovation ([see this blog post for context](#)). He would love to talk to you if you worked on a successful (and not successful) Open Innovation project and can share some insights!

## We want your input!

Do you have other ideas for categories? News you want to share? Please send your feedback and input to [MoPad](#) at any time. NHHPC eNews will be collated and distributed on a quarterly basis. [E-mail us](#) if you have any questions.